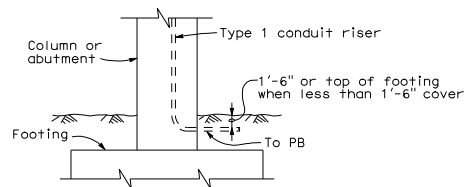
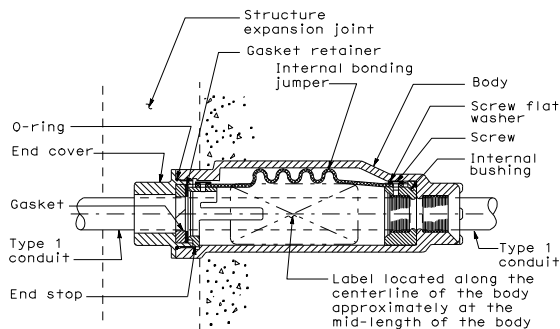


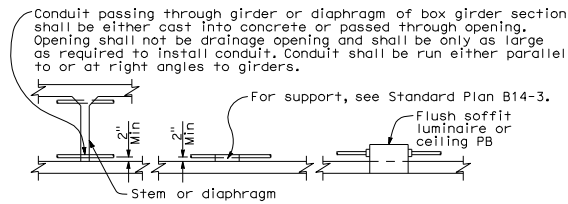
**DETAIL R**  
**CONDUIT RISER**  
**CONNECTION**



**DETAIL T**  
**LOWER END OF CONDUIT RISER**  
**AT COLUMN OR ABUTMENT**



**DETAIL X**  
**CONDUIT EXPANSION FITTING**



**DETAIL S**  
**CONDUIT INSTALLATION WITHIN**  
**BOX GIRDER SECTIONS**

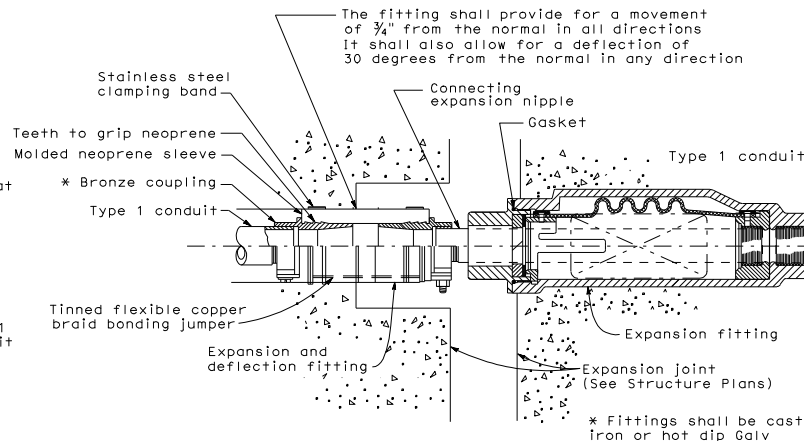
\*\* Conduit nipple,  
Length = Bridge movement rating

**NOTES:**

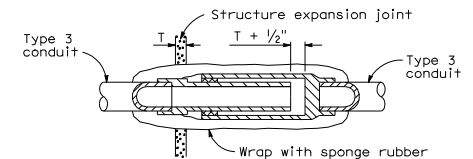
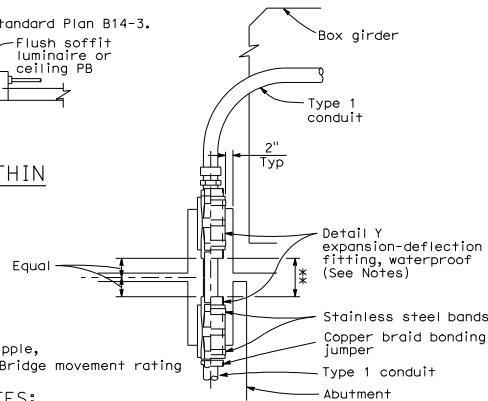
1. Fitting and pocket required only where movement can occur between girder and abutment.
2. Fill pocket around fitting with resilient waterproof compound.

**DETAIL U**

**CONDUIT RISER CONNECTION**  
**AT COLUMN, ABUTMENT OR STRUCTURE WING WALL**

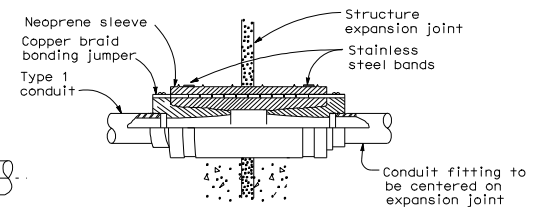


**DETAIL XY**  
**COMBINATION EXPANSION-DEFLECTION FITTINGS**  
**METALLIC CONDUIT INSTALLATION**



**NON-METALLIC CONDUIT EXPANSION**  
**FITTING INSTALLATION DETAIL**

(To be used only when shown or specified on Project Plans)



**DETAIL Y**  
**CONDUIT EXPANSION-DEFLECTION FITTING**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS**  
**(ELECTRICAL DETAILS**  
**STRUCTURE INSTALLATIONS)**

NO SCALE

**ES-9B**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

*Lawrence L. Fombrun*  
REGISTERED ELECTRICAL ENGINEER

May 1, 2006  
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to <http://www.dot.ca.gov>

**REGISTERED PROFESSIONAL ENGINEER**  
J.S. Sandhu  
No. E11803  
Exp. 9-30-06  
STATE OF CALIFORNIA

**NOTES:**

1. Except for sidewalk joints, a conduit expansion fitting or expansion-deflection fitting shall be installed at each 1/2" or greater structure joint, hinge or abutment.
2. Fittings or combination of fittings shall be installed to accommodate the movement rating as shown on the structure plans.
3. Fittings shall be installed parallel to superstructure girders.
4. Where lateral movement greater than 1/4" may occur, a neoprene sleeve expansion-deflection fitting shall be installed straddling the joint.